## Third Semester B.Arch. Degree Examination, Dec.2015/Jan.2016 **Building Services - I**

Bannalcke

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

		6	
1	a. b.	What do you understand by per capita demand of water? How it is determined? Explain the factors affecting water demand.	(10 Marks) (10 Marks)
2	a. b.	Explain briefly the theory of sedimentation. Explain with a neat sketch, continuous flow type sedimentation tank.	(08 Marks) (12 Marks)
3	a. b. c.	Differentiate between slow sand and rapid sand filter with atleast one sketch. What is meant by disinfection of water? Explain briefly disinfection by chlorination.	(12 Marks) (04 Marks) (04 Marks)
4		Define i) Sewer ii) Sewerage iii) Sewage iv) Sullage v) Garbage. Explain with a neat sketch, the working of a Drop manhole.	(10 Marks) (10 Marks)
5		What are traps? What are the requirements of a good trap? What is a hydrant and where it is located? What are its types? How does it work?	(10 Marks) (10 Marks)
6		th the help of a good sketch, show external and internal drainage system for a one ependent residence. Draw drainage plan and site boundary.	e bed room (20 Marks)
7		Explain with neat sketches, the working of a septic tank. Write short notes on:	(10 Marks)
		i) Oxidation pond. ii) Maintenance of House drainage.	(05 Marks) (05 Marks)
8		plain the following methods of carrying water:  Conservancy system.  Water carriage system.	(10 Marks) (10 Marks)